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Normal Forms and Homoclinic Chaos

William F. Langford
Wayne Nagata
Editors

American Mathematical Society

Normal Forms And Homoclinic Chaos

Vladimir Igorevich Arnol'd

Normal Forms And Homoclinic Chaos:

   Normal Forms and Homoclinic Chaos William F. Langford,Wayne Nagata,1995-01-01 This volume presents new research on normal forms symmetry homoclinic cycles and chaos from the Workshop on Normal Forms and Homoclinic Chaos held during The Fields Institute Program Year on Dynamical Systems and Bifurcation Theory in November 1992 in Waterloo Canada The workshop bridged the local and global analysis of dynamical systems with emphasis on normal forms and the recently discovered homoclinic cycles which may arise in normal forms Specific topics covered in this volume include normal forms for dissipative conservative and reversible vector fields and for symplectic maps the effects of symmetry on normal forms the persistence of homoclinic cycles symmetry breaking both spontaneous and induced mode interactions resonances intermittency numerical computation of orbits in phase space applications to flow induced vibrations and to mechanical and structural systems general methods for calculation of normal forms and chaotic dynamics arising from normal forms Of the 32 presentations given at this workshop 14 of them are represented by papers in this volume

   Quasi-Periodic Motions in Families of Dynamical Systems Hendrik W. Broer,George B. Huitema,Mikhail B. Sevryuk,2009-01-25 This book is devoted to the phenomenon of quasi periodic motion in dynamical systems Such a motion in the phase space densely fills up an invariant torus This phenomenon is most familiar from Hamiltonian dynamics Hamiltonian systems are well known for their use in modelling the dynamics related to frictionless mechanics including the planetary and lunar motions In this context the general picture appears to be as follows On the one hand Hamiltonian systems occur that are in complete order these are the integrable systems where all motion is confined to invariant tori On the other hand systems exist that are entirely chaotic on each energy level In between we know systems that being sufficiently small perturbations of integrable ones exhibit coexistence of order invariant tori carrying quasi periodic dynamics and chaos the so called stochastic layers The Kolmogorov Arnol d Moser KAM theory on quasi periodic motions tells us that the occurrence of such motions is open within the class of all Hamiltonian systems in other words it is a phenomenon persistent under small Hamiltonian perturbations Moreover generally for any such system the union of quasi periodic tori in the phase space is a nowhere dense set of positive Lebesgue measure a so called Cantor family This fact implies that open classes of Hamiltonian systems exist that are not ergodic The main aim of the book is to study the changes in this picture when other classes of systems or contexts are considered   Chaos Near Resonance G. Haller,2012-12-06 Resonances are ubiquitous in dynamical systems with many degrees of freedom They have the basic effect of introducing slow fast behavior in an evolutionary system which coupled with instabilities can result in highly irregular behavior This book gives a unified treatment of resonant problems with special emphasis on the recently discovered phenomenon of homoclinic jumping After a survey of the necessary background a general finite dimensional theory of homoclinic jumping is developed and illustrated with examples The main mechanism of chaos near resonances is discussed in both the dissipative and the Hamiltonian context Previously

unpublished new results on universal homoclinic bifurcations near resonances as well as on multi pulse Silnikov manifolds are described The results are applied to a variety of different problems which include applications from beam oscillations surface wave dynamics nonlinear optics atmospheric science and fluid mechanics The theory is further used to study resonances in Hamiltonian systems with applications to molecular dynamics and rigid body motion The final chapter contains an infinite dimensional extension of the finite dimensional theory with application to the perturbed nonlinear Schr dinger equation and coupled NLS equations **Bifurcations in Hamiltonian Systems** Henk Broer,Igor Hoveijn,Gerton Lunter,Gert Vegter,2003-01-01 The authors consider applications of singularity theory and computer algebra to bifurcations of Hamiltonian dynamical systems They restrict themselves to the case were the following simplification is possible Near the equilibrium or quasi periodic solution under consideration the linear part allows approximation by a normalized Hamiltonian system with a torus symmetry It is assumed that reduction by this symmetry leads to a system with one degree of freedom The volume focuses on two such reduction methods the planar reduction or polar coordinates method and the reduction by the energy momentum mapping The one degree of freedom system then is tackled by singularity theory where computer algebra in particular Gr bner basis techniques are applied The readership addressed consists of advanced graduate students and researchers in dynamical systems **Structure And Dynamics Of Nonlinear Waves In Fluids: Proceedings Of The Iutam/isimm Symposium** K Kirchgassner,Alexander Mielke,1995-08-31 This symposium brought together mechanicians physicists and applied mathematicians to discuss the interdisciplinary topic of nonlinear wave motion which displays effects that give rise to a multitude of unanswered questions Nonlinear waves in fluids in particular display all the prominent nonlinear phenomena such as chaos turbulence and pattern formation Amongst the topics emphasized in these proceedings are travelling fronts solitary waves and periodic waves dissipative and conservative temporal and spatial asymptotics of perturbations of waves bifurcations stability and local dynamics of waves interaction between different waves and between waves and the mean flow wave breaking nonlinear effects on focussing and diffraction modulation and envelope equations their derivation and validity and numerical and experimental results **Handbook of Dynamical Systems** H. Broer,F. Takens,B. Hasselblatt,2010-11-10 In this volume the authors present a collection of surveys on various aspects of the theory of bifurcations of differentiable dynamical systems and related topics By selecting these subjects they focus on those developments from which research will be active in the coming years The surveys are intended to educate the reader on the recent literature on the following subjects transversality and generic properties like the various forms of the so called Kupka Smale theorem the Closing Lemma and generic local bifurcations of functions so called catastrophe theory and generic local bifurcations in 1 parameter families of dynamical systems and notions of structural stability and moduli Covers recent literature on various topics related to the theory of bifurcations of differentiable dynamical systems Highlights developments that are the foundation for future research in this field Provides material in the form of surveys which are important tools for

introducing the bifurcations of differentiable dynamical systems   **Partially Hyperbolic Dynamics, Laminations, and Teichmuller Flow** Giovanni Forni,2007 This volume collects a set of contributions by participants of the Workshop Partially hyperbolic dynamics laminations and Teichmuller flow held at the Fields Institute in Toronto in January 2006 The Workshop brought together several leading experts in two very active fields of contemporary dynamical systems theory partially hyperbolic dynamics and Teichmuller dynamics They are unified by ideas coming from the theory of laminations and foliations dynamical hyperbolicity and ergodic theory These are the main themes of the current volume The volume contains both surveys and research papers on non uniform and partial hyperbolicity on dominated splitting and beyond in Part I Teichmuller dynamics with applications to interval exchange transformations and on the topology of moduli spaces of quadratic differentials in Part II foliations and laminations and other miscellaneous papers in Part III Taken together these papers provide a snapshot of the state of the art in some of the most active topics at the crossroads between dynamical systems smooth ergodic theory geometry and topology suitable for advanced graduate students and researchers Non specialists will find the extensive in depth surveys especially useful   **Vertex Operator Algebras in Mathematics and Physics** Stephen Berman, Vertex operator algebras are a class of algebras underlying a number of recent constructions results and themes in mathematics These algebras can be understood as string theoretic analogues of Lie algebras and of commutative associative algebras They play fundamental roles in some of the most active research areas in mathematics and physics Much recent progress in both physics and mathematics has benefited from cross pollination between the physical and mathematical points of view This book presents the proceedings from the workshop Vertex Operator Algebras in Mathematics and Physics held at The Fields Institute It consists of papers based on many of the talks given at the conference by leading experts in the algebraic geometric and physical aspects of vertex operator algebra theory The book is suitable for graduate students and research mathematicians interested in the major themes and important developments on the frontier of research in vertex operator algebra theory and its applications in mathematics and physics   **The Arnoldfest** Vladimir Igorevich Arnol′d,1999 This volume presents articles originating from invited talks at an exciting international conference held at The Fields Institute in Toronto celebrating the sixtieth birthday of the renowned mathematician Vladimir Arnold Experts from the world over including several from Arnold s school gave illuminating talks and lively poster sessions The presentations focused on Arnold s main areas of interest singularity theory the theory of curves symmetry groups dynamical systems mechanics and related areas of mathematics The book begins with notes of three lectures by V Arnold given in the framework of the Institute s Distinguished Lecturer program The topics of the lectures are 1 From Hilbert s Superposition Problem to Dynamical Systems 2 Symplectization Complexification and Mathematical Trinities 3 Topological Problems in Wave Propagation Theory and Topological Economy Principle in Algebraic Geometry Arnold s three articles include insightful comments on Russian and Western mathematics and science Complementing the first is Jurgen Moser s Recollections

concerning some of the history of KAM theory *Symplectic and Contact Topology* Y. Eliashberg,Boris A. Khesin,François Lalonde,2003-01-01 The papers presented in this volume are written by participants of the Symplectic and Contact Topology Quantum Cohomology and Symplectic Field Theory symposium The workshop was part of a semester long joint venture of The Fields Institute in Toronto and the Centre de Recherches Mathematiques in Montreal The twelve papers cover the following topics Symplectic Topology the interaction between symplectic and other geometric structures and Differential Geometry and Topology The Proceeding concludes with two papers that have a more algebraic character One is related to the program of Homological Mirror Symmetry the author defines a category of extended complex manifolds and studies its properties The subject of the final paper is Non commutative Symplectic Geometry in particular the structure of the symplectomorphism group of a non commutative complex plane The in depth articles make this book a useful reference for graduate students as well as research mathematicians Dynamo and Dynamics, a Mathematical Challenge Pascal Chossat,Dieter Armbruster,Iuliana Oprea,2012-12-06 This book contains the lectures given at the workshop Dynamo and dynamics a mathematical challenge held in Cargese from August 21 to 26 2000 The workshop differed from most previous conferences on the dynamo effect in two important respects First it was at this international conference that the experimental observation of homogeneous fluid dynamos was first reported Second the conference gathered scientists from very different fields thus showing that thepynamo problem has become an interdisciplinary subject involving not only astrophysicists and geophysicists but also scientists working in dynamical systems theory hydrodynamics and numerical simulation as well as several groups in experimental physics This book thus reports important results on various dynamo studies in these different contexts Decades after the discovery of the first analytic examples of laminar fluid dynamos the self generation of a magnetic field by a flow ofliquid sodium has been reported by the Karlsruhe and Riga groups Although there were no doubts concerning the self generation by the laminar Roberts type or Ponomarenko type flows that were used these experiments have raised interesting questions about the influence of the turbulent fluctuations on the dynamo threshold and on the saturation level of the magnetic field Dynamical Systems and Their Applications in Biology Shigui Ruan,Gail Susan Kohl Wolkowicz,Jianhong Wu,2003 This volume is based on the proceedings of the International Workshop on Dynamical Systems and their Applications in Biology held at the Canadian Coast Guard College on Cape Breton Island Nova Scotia Canada It presents a broad picture of the current research surrounding applications of dynamical systems in biology particularly in population biology The book contains 19 papers and includes articles on the qualitative and or numerical analysis of models involving ordinary partial functional and stochastic differential equations Applications include epidemiology population dynamics and physiology The material is suitable for graduate students and research mathematicians interested in ordinary differential equations and their applications in biology Also available by Ruan Wolkowicz and Wu is Differential Equations with Applications to Biology Volume 21 in the AMS series Fields Institute

Communications   Operator Algebras and Their Applications II Peter A. Fillmore,James A. Mingo,1997 The study of operator algebras which grew out of von Neumann s work in the 1920s and the 1930s on modelling quantum mechanics has in recent years experienced tremendous growth and vitality This growth has resulted in significant applications in other areas both within and outside mathematics The field was a natural candidate for a 1994 1995 program year in Operator Algebras and Applications held at The Fields Institute for Research in the Mathematical Sciences This volume contains a selection of papers that arose from the seminars and workshops of the program Topics covered include the classification of amenable C algebras the Baum Connes conjecture E subscript 0 semigroups subfactors E theory quasicrystals and the solution to a long standing problem in operator theory Can almost commuting self adjoint matrices be approximated by commuting self adjoint matrices   **Topics in Semidefinite and Interior-Point Methods** Panos M. Pardalos,Henry Wolkowicz,1998 This volume presents refereed papers presented at the workshop Semidefinite Programming and Interior Point Approaches for Combinatorial Problems held at The Fields Institute in May 1996 Semidefinite programming SDP is a generalization of linear programming LP in that the non negativity constraints on the variables is replaced by a positive semidefinite constraint on matrix variables Many of the elegant theoretical properties and powerful solution techniques follow through from LP to SDP In particular the primal dual interior point methods which are currently so successful for LP can be used to efficiently solve SDP problems In addition to the theoretical and algorithmic questions SDP has found many important applications in combinatorial optimization control theory and other areas of mathematical programming The papers in this volume cover a wide spectrum of recent developments in SDP The volume would be suitable as a textbook for advanced courses in optimization It is intended for graduate students and researchers in mathematics computer science engineering and operations   *Topics in Mathematical Economics and Game Theory* Robert J. Aumann,Myrna Holtz Wooders,1999 Among his contributions to game theory economics and mathematics Aumann introduced the concept of acceptable points As this endeared him to many game theorists a reprint of his seminal 1959 paper on Acceptable Points in General Cooperative n Person Games leads the 17 offerings on cooperative and non cooperative game theory and economics and social choice A number of these papers or related works were presented at the Fields Institute Conference New Directions in the Theory of Markets and Games held October 1995 in Toronto honoring Aumann The conference program concludes the text Lacks an index Annotation copyrighted by Book News Inc Portland OR   **Operator Algebras and Their Applications** Peter A. Fillmore,James A. Mingo,1997 The study of operator algebras which grew out of von Neumann s work in the 1920s and the 1930s on modelling quantum mechanics has in recent years experienced tremendous growth and vitality This growth has resulted in significant applications in other areas both within and outside mathematics The field was a natural candidate for a 1994 1995 programme year in Operator Algebras and Applications held at The Fields Institute for Research in the Mathematical Sciences This volume contains a selection of papers that arose from the seminars and

workshops of the programme Topics covered include the classification of amenable C algebras the Baum Connes conjecture E 0 semigroups subfactors E theory quasicrystals and the solution to a long standing problem in operator theory can almost commuting self adjoint matrices be approximated by commuting self adjoint matrices   Singularity Theory Denis Chéniot,2007 The Singularity School and Conference took place in Luminy Marseille from January 24th to February 25th 2005 More than 180 mathematicians from over 30 countries converged to discuss recent developments in singularity theory The volume contains the elementary and advanced courses conducted by singularities specialists during the conference general lectures on singularity theory and lectures on applications of the theory to various domains The subjects range from geometry and topology of singularities through real and complex singularities to applications of singularities   *Galois Theory, Hopf Algebras, and Semiabelian Categories* George Janelidze, Bodo Pareigis, and Walter Tholen,   **Cyclic Cohomology and Noncommutative Geometry** Joachim J. R. Cuntz,Masoud Khalkhali,1997-01-01 Noncommutative geometry is a new field that is among the great challenges of present day mathematics Its methods allow one to treat noncommutative algebras such as algebras of pseudodifferential operators group algebras or algebras arising from quantum field theory on the same footing as commutative algebras that is as spaces Applications range over many fields of mathematics and mathematical physics This volume contains the proceedings of the workshop on Cyclic Cohomology and Noncommutative Geometry held at The Fields Institute Waterloo ON in June 1995 The workshop was part of the program for the special year on operator algebras and its applications   **The Sixth Canadian Conference on General Relativity and Relativistic Astrophysics** Stephen Paul Braham,Jack David Gegenberg,Robert James McKellar,1997 This volume is the refereed proceedings of the Sixth Canadian Conference on General Relativity and Relativistic Astrophysics held in May 1995 at the University of New Brunswick The book includes invited talks and contributed talks and posters including state of the art reviews of many of the most recent important developments in gravitational physics This book would serve as a good supplement to standard texts on the topic It features review articles in key areas black holes numerical relativity etc contributions covering most of gravitational physics useful articles for students who wish to begin exploring the issues discussed and invited talks given by researchers known for their ability to communicate their expertise

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